1-6 Solving Compound and Absolute Value Inequalities

AND conjunction intersection $\cap$

OR disjunction union $\cup$

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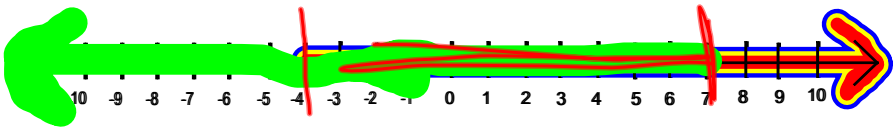
AND

$x \geq -4$

$-4 \leq x \leq 7$

$-4 \leq x$ AND $x < 7$



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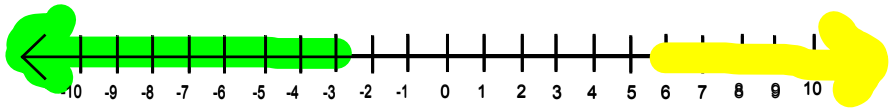
$x \leq -3$ OR $x \geq 6$



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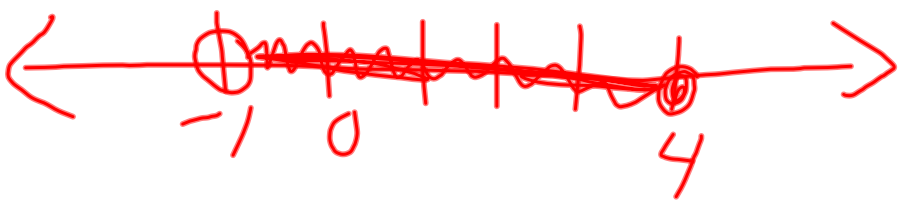
ex:

$-9 < 3(x-2) \leq 6$

$-9 < 3(x-2)$ AND $3(x-2) \leq 6$

$-1 < x$ $\quad$ $x \leq 4$

$x > -1$



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$$\frac{y}{3} - 7 < -9 \text{ or } \frac{y+6}{2} > 5$$

$y < -6$ OR $y > 4$

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Absolute Value and Order

Less Th**AND**

Great**OR** than

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ex:

$|x-5| \leq 3$ $\quad -(x-5) \leq 3$

$x-5 \leq 3$ AND $x-5 \geq -3$

$x \leq 8$ $\quad x \geq 2$

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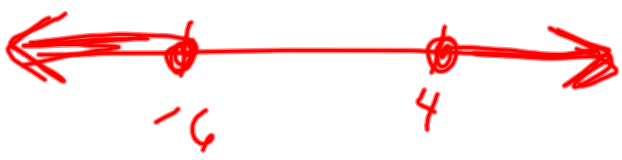
ex:

$-3|a+1| \leq -15$

$|a+1| \geq 5$ OR

$a+1 \geq 5$ OR $a+1 \leq -5$

$a \geq 4$ $\quad a \leq -6$



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ex:

$|2x| < -6$ $\emptyset$

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HW p44 #s 27-43odd and 44

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